(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 3 June 2004 (03.06.2004)

(10) International Publication Number WO 2004/046090 A3

(51) International Patent Classification7: C07C 275/42, 309/46, C07D 209/40, 213/72, 231/56, 257/04, 271/07, 333/36, A61K 31/17, 31/19, 31/381, 31/416, 31/4245, 31/44

(21) International Application Number:

PCT/DK2003/000768

(22) International Filing Date:

10 November 2003 (10.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PA 2002 01803 21 November 2002 (21.11.2002)

(71) Applicant (for all designated States except US): NEU-ROSEARCH A/S [DK/DK]; 93 Pederstrupvej, DK-2750 Ballerup (DK).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): VALGEIRS-SON, Jon [IS/IS]; Hraunbæ 176, IS-110 Reykjavik (IS). NIELSEN, Elsebet, Østergaard [DK/DK]; C/o Neurosearch A/S, 93 Pederstrupvej, Dk-2750 Ballerup (DK). PETERS, Dan [SE/DK]; C/o Neurosearch A/S, 93 Pederstrupvej, DK-2750 Ballerup (DK).
- (74) Common Representative: NEUROSEARCH A/S: Patent Department, 93 Pederstrupvej, DK-2750 Ballerup (DK).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO. SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

Published:

with international search report

(88) Date of publication of the international search report: 19 August 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ARYL UREIDO DERIVATIVES AND THEIR MEDICAL USE

(57) Abstract: This invention relates to novel aryl ureido benzoic acid derivatives useful as selective and non-competitive antagonists of the ionotropic GluR5 receptor. Due to their biological activity, the aryl ureido derivatives of the invention are considered useful for treating diseases that are responsive to modulation of an aspartate or a glutamate receptor. Moreover the invention provides chemical compounds for use according to the invention, as well as pharmaceutical compositions comprising the chemical compounds, and methods of treating diseases or disorders or conditions responsive to modulation of an aspartate or a glutamate receptor.

